Utilities and Transportation Commission Standard Inspection Report for Intrastate Gas Systems Procedures and Plan Review

S-S Satisfactory U-U Satisfactory N/A-N of Applicable N/C-N of Checked If an item is marked U, N/A, or N/C, an explanation must be included in this report.

A completed **Inspection Checklist**, **Cover Letter and Field Report** are to be submitted to the Senior Engineer within **30 days** from completion of the inspection.

	Inspection Report						
Insp ID/Docket Number	er	2697					
Inspector Name &		Anthony Dorrough					
Submit Date		11/7/13					
Sr. Eng Review/Date		Joe Subsits					
		Operator Information					
Name of Operator:	Sol	vay Chemicals Inc.		OP ID #:	32399		
Name of Unit(s):	Sol	vay Chemicals Hydrogen Pipeline					
Records Location:	Records Location: 3500 Industrial Way, Longview, WA 98632-9482						
Date(s) of Last	11/	18 thru 11/20/2008	Inspection Date	11/7/2013			
Review:							

Inspection Summary:

Solvay Chemicals Inc. operates a 6-inch hydrogen pipeline, approximately 500 (Ft.) in length. The pipeline originates at the **Axiall** (formerly PPG-Equa Chlor) plant inside the **Weyerhaueser** plant boundary. After leaving the Weyerhaueser plant fence, the hydrogen line crosses under a railroad track, a highway (**Industrial Way**) and over a drainage ditch, then under the Solvay plant fence and terminates at an above ground insulating flange.

The relief valve set pressure at the delivery source (**Axiall**) is **70 psig**. The normal operating pressure is below **60 psig**. The MAOP of the line is **150 psig**. The pipeline was hydrostatically tested to **225 psig** in 2007.

The purpose of this inspection is to review the O&M manual. There were minor suggested changes identified within the O&M manual during this review, these suggested changes will be discussed with Engineering/Maintenance Manager by telephone or in person on site.

HQ Address:			System/Unit Name & Address:	
333 Richmond Ave.			Solvay Chemicals Hydrogen Pipelin	e
Houston, TX 77098			3500 Industrial Way	
·			Longview, WA 98632-9482	
Co. Official:	Mike Banigan		Phone No.: (360)-636-7703	
Phone No.:	(360)-636-7793		Fax No.: (360)-425-1163	
Fax No.:	(360)-425-1163		Emergency Phone No.:	
Emergency Phone No.:	(360)-636-7796		(360)-636-7796	
Persons Int	terviewed	Title		Phone No.
Pascal N	Mansy	Engineering/Maintenance Manager		(360)-577-7800

S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked If an item is marked U, N/A, or N/C, an explanation must be included in this report.

	GA	AS SYSTEM OPERATIONS	
Gas Supplier: Axiall			
Operating Pressure(s):		MAOP (Within last year)	Actual Operating Pressure (At time of Inspection)
Feeder: 60 psig	150 psig		60 psig
Town:			
Other:			
Does the operator have any transmission pipeline	s?		

Pipe Specifications:			
Year Installed (Range)	1988	Pipe Diameters (Range)	6-inch
Material Type	Carbon Steel	Line Pipe Specification	ASTM A-53 Grade B
		Used	
Mileage	500 feet	SMYS %	5% SMYS

49 CFR PART 191 & CHAPTER 480-93 WAC

		REPORTING PROCEDURES	S	U	N/A	N/C
1.		Telephonic reports to NRC (800-424-8802) 191.5	X			
2.		Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 2 hours) for events which; 480-93-200(1) (effective 6/02/05)				
3.		(a) Results in a fatality or personal injury requiring hospitalization;	X			
4.		(b) Results in damage to the property of the operator and others of a combined total exceeding fifty thousand dollars;	X			
5.		(c) Results in the evacuation of a building, or high occupancy structures or areas	X			
6.	480-93-180 (1)	(d) Results in the unintentional ignition of gas;	X			
7.	100 30 100 (1)	(e) Results in the unscheduled interruption of service furnished by any operator to twenty-five or more distribution customers; N/A: This operator is not a LDC.			X	
8.		(f) Results in a pipeline or system pressure exceeding the MAOP plus ten percent or the maximum pressure allowed by proximity considerations outlined in WAC 480-93-020 ;	X			
9.		g) Is significant, in the judgment of the operator, even though it does not meet the criteria of (a) through (e) of this subsection; or	X			
10.		(h) Results in the news media reporting the occurrence, even though it does not meet the criteria of (a) through (e) of this subsection.	X			
11.		Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 24 hours) for; 480-93-200(2) (effective 6/02/05)	X			
12.		(a) The uncontrolled release of gas for more than two hours;	X			
13.		b) The taking of a high pressure supply or transmission pipeline or a major distribution supply pipeline out of service; N/A: This operator is not a LDC.			X	
14.	480-93-180 (1)	(c) A pipeline or system operating at low pressure dropping below the safe operating conditions of attached appliances and gas equipment; or N/A: This operator is not a distribution company.			X	
15.		(d) A pipeline or system pressure exceeding the MAOP.	X			
16.		Annual reports; (DOT Form F 7100.1) 191.11	X			
17.		30 day written incident (federal) reports; (DOT Form F 7100.2) 191.15(a) N/A: This system is a distribution system.			X	
18.		Supplemental incident reports; 191.15(b) N/A: This system is a distribution system.			X	

		REPORTING PROCEDURES	S	U	N/A	N/C
19.		Written incident reports including supplemental reports (within 30 days); and include the following; 480-93-200(4) (a) thru (g) (effective 6/02/05)	X			
20.	480-93-180 (1)	Written report within 5 days of completion or receipt the failure analysis report by the gas company, concerning any incident or hazardous condition due to construction defects or material failure 480-93-200(6) (effective 5/30/08)	X			
21.		Annual Report (DOT Form PHMSA F-7100.2-1) 191.17(a)	X			
		Annual Reports filed no later than March 15 for the proceeding calendar year 480-93-200(6) (effective 6/02/05)				
22.		 A copy of PHMSA form F-7100.1-1 or F-7100.2-1 annual report required by the PHMSA/OPS 480-93-200(6)(a) (effective 6/02/05) 	X			
23.		 Annual Damage Prevention Statistics Report (effective 6/02/05) including the following; 480-93-200(7)(b)(i) thru (iii) (effective 6/02/05) 	X			
24.		Annual report on construction defects or material failures 480-93-200(6) (effective 5/30/08)	X			
25.	480-93-180 (1)	Providing updated emergency contact information to the Commission and appropriate officials 480-93-200(8) (effective 6/02/05)	X			
26.	()	Providing daily construction and repair activities reports 480-93-200(8) (effective 6/02/05 N/A: There are no daily construction reports. However, UTC will be notified if there are any repair activities.			X	
27.		Submitting copy of DOT Drug and Alcohol Testing MIS Data Collection Form (when required) 480-93-200(10) (effective 5/30/08) N/A: Per 199.119, the MIS report is not required as the number of covered employees are fewer than (50).			X	
28.		Safety related condition reports (SRCR) 191.23	X			
29.		Filing the SRCR within 5 days of determination, but not later than 10 days after discovery 191.25	X			

Documentation Reviewed:							
Document/Section Number	Revision Date						
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	49 CFR PART 192 SUBPART A – GENERAL CHAPTER 480-93 WAC – GAS COMPANIESSAFETY			U	N/A	N/C
30.	480-93-180 (1)	Procedures for notifying new customers, within 90 days, of their responsibility for those selections of service lines not maintained by the operator. §192.16 N/A: This operator is not a Local Distribution Company (LDC).			X	
31.		Conversion to Service - Any pipelines previously used in service not subject to Part 192? 192.14 N/A: There are no service conversions for this operator.			X	

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Com	ments:		LS (Note: This operator does not use plastic pipements prescribed for the selection and qualification appelines 192.51		S	U	N/A	N/C
32.	480-93-180 (1)	For steel pipe, manuf Appendix B 192.55	actured in accordance with and meet the listed specific	fication found under	X			
33.	480-93-180 (1)	It is manufa It is resistar (See note a)	• It is resistant to chemicals with which contact may be anticipated. 192.59(a) (2) (See note above)				X	
34.	480-93-180 (1)	 For used plastic pipe, qualified for use under this part if: 192.59(b) It was manufactured in accordance with a listed specification; 192.59(b)(1) It is resistant to chemicals with which contact may be anticipated; 192.59(b)(2) It has been used only in natural gas service. 192.59(b)(3)(4) Its dimensions are still within the tolerances of the specification to which it was manufactured; and, 192.59(b) It is free of visible defects. 192.59(b)(5) (See note above) Marking of Materials 192.63			X		X	
·	mentation Revie	•				ı		
Docu	Documen		Document/Section Number	Revi	sion D	ate		
Comi	nents:							
			SUBPART C – PIPE DESIGN					
		Procedures for assuri	ng that the minimum requirements for design of pipe	e are met				
			For Steel Pipe		S	U	N/A	N/C
36.		anticipated external p 192.103	icient wall thickness, or installed with adequate prote ressures and loads that will be imposed on the pipe a		X			
37.		Design formula for st	eel pipe. 192.105(a)		X			
38.	480-93-180 (1)	Yield strength (S) for	steel pipe. 192.107					

		SUBPART C – PIPE DESIGN			
39.		Nominal wall thickness (t) for steel pipe. 192.109 (a) & (b) N/A: The nominal thickness of the 6-inch pipe is 0.280" (Standard Schedule). (a) If the nominal wt is not known Determined by measuring the thickness of each piece of pipe at quarter points on one end unless			
	480-93-180 (1)	(b) If the pipe is of uniform grade, size, and thickness and more than 10 lengths of pipeline, only 10 percent of the individual lengths, but not less than 10 lengths, need be measured. The thickness of the lengths that are not measured must be verified by applying a gauge set to the minimum thickness found by the measurement. The nominal wall thickness to be used in the design formula in §192.105 is the next wall thickness found in commercial specifications that is below the average of all the measurements taken. However, the nominal wall thickness used may not be more than 1.14 times the smallest measurement taken on pipe less than 20 inches (508 millimeters) in outside diameter, nor more than 1.11 times the smallest measurement taken on pipe 20 inches (508 millimeters) or more in outside diameter.		X	
40.		Design factor (F) for steel pipe. 192.111			
41.		(a) Except as otherwise provided in paragraphs (b), (c), and (d) of this section, the design factor to be used in the design formula in §192.105 is determined in accordance with the following Class location Design factor (F) table. Class 1 0.72, Class 2 0.60, Class 3 0.50, Class 4 0.40	X		
43.		 (b) A design factor of 0.60 or less must be used in the design formula in §192.105 for steel pipe in Class 1 locations that: (1) Crosses the right-of-way of an unimproved public road, without a casing; (2) Crosses without a casing, or makes a parallel encroachment on, the right-of-way of either a hard surfaced road, a highway, a public street, or a railroad; (3) Is supported by a vehicular, pedestrian, railroad, or pipeline bridge; or (4) Is used in a fabricated assembly, (including separators, mainline valve assemblies, crossconnections, and river crossing headers) or is used within five pipe diameters in any direction from the last fitting of a fabricated assembly, other than a transition piece or an elbow used in place of a pipe bend which is not associated with a fabricated assembly. N/A: None of these items apply to this pipeline. (c) For Class 2 locations, a design factor of 0.50, or less, must be used in the design formula in §192.105 for uncased steel pipe that crosses the right-of-way of a hard surfaced road, a highway, a public street, or a railroad. N/A: This line is in Class 2 location. (d) For Class 1 and Class 2 locations, a design factor of 0.50, or less, must be used in the design formula in §192.105 for- (1) Steel pipe in a compressor station, regulating station, or measuring station, and (2) Steel pipe, including a pipe riser, on a platform located offshore or in inland navigable waters. N/A: This line is not in a compressor station and is not a riser. 		x x	
45.		T			
46.	400.02.400.75	Longitudinal joint factor (E) for steel pipe. 192.113	X		
70.	480-93-180 (1)	Temperature de-rating factor (T) for steel pipe. 192.115	X		
		For Plastic Pipe NOTE: THIS OPERATOR DOES NOT USE PLASTIC PIPE.			
47.	480-93-180 (1)	Subject to the limitations of §192.123, for determining the design pressure for plastic pipe in accordance with either formula listed. 192.121		X	
48.		For assuring that the design limitations for plastic pipe are not exceeded. 192.123 (a) thru (e)		X	

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Comments:

63.

		SUBPART D – DESIGN OF PIPELINE COMPONENTS	S	U	N/A	N/C
		For the design and installation of pipeline components and facilities, and relating to protection against accidental over-pressuring. 192.141				
49.		General requirements 192.143	X			
50.		Qualifying metallic components. 192.144 (a) & (b)	X			
51.		For steel valves; meeting the minimum requirements of API 6D, or other standard that provides an equivalent performance level. 192.145 (a) thru (e) N/A: The jurisdictional portion of this line does not have a valve.			X	
52.		For each flange or flange accessory (other than cast iron) must meet the minimum requirements of ASME/ANSI B16.5, MSS SP-44, or the equivalent. 192.147 (a) thru (c)			X	
		N/A: The jurisdictional portion of this line does not have a flange.	<u> </u>	<u> </u>	<u> </u>	
53.	480-93-180 (1)	For ensuring that each new transmission line and each replacement of line pipe, valve, fitting, or other line component in a transmission line is designed and constructed to accommodate the passage of instrumented internal inspection devices. 192.150 (a) thru (c) N/A: This line was installed in 1988 and is not a new transmission line.			X	
54.		Components fabricated by welding. 192.153 (a) thru (d) N/A: There were no components fabricated by welding.			X	
55.		Welded branch connections. 192.155 N/A: There were no welded branch connections.			X	
56.		Flexibility. 192.159	X			
57.		Supports and Anchors 192.161(a) (a) thru (f)	X			
		Compressor Stations NOTE: THERE ARE NO COMPRESSOR STATIONS				
58.		Compressor stations: Design and construction. 192.163 (a) thru (e)			X	
59.	480-93-180 (1)	Compressor stations: Liquid removal. 192.165 (a) & (b)			X	
60.		Compressor stations: Emergency shutdown. 192.167 (a) thru (c)			X	
61.		Compressor stations: Pressure limiting devices. 192.169 (a) & (b)			X	
62.	480-93-180 (1)	Compressor stations: Additional safety equipment. 192.171 (a) thru (e)			X	

Compressor stations: Ventilation. 192.173

		SUBPART D – DESIGN OF PIPELINE COMPONENTS	S	U	N/A	N/C
64.		Pipe-type and bottle-type holders. 192.175 N/A: There are no bottle-type holders.			X	
65.	1	Additional provisions for bottle-type holders. 192.177 N/A: There are no bottle-type holders.			X	
66.	490.02.190.(1)	Transmission line valves.192.179 (a) thru (d) N/A: There are no transmission line valves.			X	
67.	480-93-180 (1)	Distribution line valves. 192.181(a) thru (c) N/A: There are no distribution line valves.			X	
68.		Vaults: Structural design requirements 192.183 (a) thru (c) N/A: There are no vaults.			X	
69.	1	Vaults: Accessibility 192.185 (a) thru (c) N/A: There are no vaults.			X	
70.]	Vaults: Sealing, venting, and ventilation. 192.187 (a) thru (c) N/A: There are no vaults.			X	
71.		Vaults: Drainage and waterproofing 192.189 (a) thru (c) N/A: There are no vaults.			X	
72.	480-93-180 (1)	Design pressure of plastic fittings 192.191 (a) & (b) N/A: There are no plastic fittings.			X	
73.		Valve installation in plastic pipe. 192.193 N/A: There is no plastic pipe.			X	
74.		Protection against accidental over-pressuring 192.195 (a) & (b)	X			
75.	-	Control of the pressure of gas delivered from high-pressure distribution systems. 192.197 (a) thru (c) N/A: The operator is not an LDC.			X	
76.	480-93-180 (1)	Except for rupture discs, each pressure relief or pressure limiting device must: 192.199 (a) thru (h) N/A: The overpressure protection is provided by the hydrogen gas supplier.			X	
77.		Required capacity of pressure relieving and limiting stations. 192.201(c) N/A: There are no pressure relieving and limiting stations.			X	
78.]	Instrument, Control, and Sampling Pipe and Components 192.203(a) & (b) N/A: There are no instrument, control, and sampling pipe & components.			X	

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		SUBPART E – WELDING OF STEEL IN PIPELINES				
W.	AC 480-93-080 –	WELDER & PLASTIC JOINER IDENTIFICATION and QUALIFICATION	S	U	N/A	N/C
79.		Welding procedures must be qualified under Section 5 of API 1104 (19 th ed.1999, 10/31/01 errata) or Section IX of ASME Boiler and Pressure Code (2001 ed.) by destructive test225(a)	X			
80.		Retention of welding procedure – details and test .225(b)	X			
81.	480-93-180(1)	Welders must be qualified by Section 6 of API 1104 (19 th ed.1999, 10/31/01 errata) or Section IX of ASME Boiler and Pressure Code (2001 ed.) See exception in .227(b)227(a)	X			
82.		Welders may be qualified under section I of Appendix C to weld on lines that operate at < 20% SMYS227(b) N/A: The operator does not use Appendix C for welding the 6" line.			X	
		(Note: The operator does not use Oxyacetylene welding for the 6" line) Oxyacetylene welders may qualify under 49 CFR § 192 Appendix C, but may only weld the following size pipe: 480-93-080(1)(a) (eff 6/02/05)	S	U	N/A	N/C
83.		• Nominal two-inch or smaller branch connections to nominal six-inch or smaller main or service pipe. 480-93-080(1)(a)(i) (See note above)			X	
84.	480-93-180 (1)	• Nominal two-inch or smaller below ground butt welds 480-93-080(1)(a)(ii) (See note above)			X	
85.	400 02 100/1	• Nominal four-inch or smaller above ground manifold and meter piping operating at 10 psig or less. 480-93-080(1)(a)(iii) (See note above)			X	
86.	480-93-180(1)	• Appendix C Welders re-qualified 2/Yr (7.5Months) 480-93-080(1)(a)(iv) (See note above)			X	
87.		Use of testing equipment to record and document essential variables 480-93-080(1)(b) (effective 6/02/05)	X			
88.		Qualified written welding procedures must be located on-site where welding is being performed 480-93-080(1)(d) Note: Need to add this verbiage to manual.		X		
89.		Identification and qualification cards/certificates w/name of welder/joiner, their qualifications, date of qualification and operator whose qualification procedures were followed. 480-93-080(3) (effective 6/02/05)	X			
90.		To weld on compressor station piping and components, a welder must successfully complete a destructive test 229(a) N/A: There is no compressor station.			X	
91.		Welder must have used welding process within the preceding 6 months .229(b)	X			
92.		A welder qualified under .227(a)229(c)				
93.	480-93-180(1)	 May not weld on pipe that operates at ≥ 20% SMYS unless within the preceding 6 calendar months the welder has had one weld tested and found acceptable under the sections 6 or 9 of API Standard 1104; may maintain an ongoing qualification status by performing welds tested and found acceptable at least twice per year, not exceeding 7½ months; may not requalify under an earlier referenced edition229(c)(1) 	X			
94.		May not weld on pipe that operates at < 20% SMYS unless is tested in accordance with .229(c)(1) or re-qualifies under .229(d)(1) or (d)(2)229(c)(2)	X			
		Welders qualified under .227(b) may not weld unless: .229(d)	S	U	N/A	N/C
95.		Re-qualified within 1 year/15 months, or .229(d)(1)	X			
96.		 Within 7½ months but at least twice per year had a production weld pass a qualifying test .229(d)(2) 	X			
97.		Welding operation must be protected from weather .231	X			
98.	400 02 100/1\	Miter joints (consider pipe alignment) .233	X			
99.	480-93-180(1)	Welding preparation and joint alignment .235	X			
100.		Visual inspection must be conducted by an individual qualified by appropriate training and experience to ensure: .241(a) thru (c)	X			
101.		Nondestructive testing of welds must be performed by any process, other than trepanning, that clearly indicates defects that may affect the integrity of the weld .243 (a) thru (f)	X			
102.		Repair or removal of defects .245 (a) thru (c)	X			
		Sleeve Repair – low hydrogen rod (Best Practices –ref. API 1104 App. B, In Service Welding)				

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Document Title	Document/Section Number	Revision Date				

Comments:		

w		- JOINING OF PIPELINE MATERIALS OTHER THAN BY WELDING - WELDER & PLASTIC JOINER IDENTIFICATION and QUALIFICATION	S	U	N/A	N/C
103.		Joining of plastic pipe .281 NOTE: THE OPERATOR DOES NOT USE PLASTIC PIPE.				
104.		A plastic pipe joint that is joined by solvent cement, adhesive, or heat fusion may not be disturbed until it has properly set. Plastic pipe may not be joined by a threaded joint or miter joint. 281(a)			X	
105.		Each solvent cement joint on plastic pipe must comply with the following: .281(b)				
106.		• The mating surfaces of the joint must be clean, dry, and free of material which might be detrimental to the joint281(b)(1)			X	
107.		• The solvent cement must conform to ASTM Designation: D 2513281(b)(2)			X	
108.		• The joint may not be heated to accelerate the setting of the cement281(b)(3)			X	
109.		Each heat-fusion joint on plastic pipe must comply with the following: .281(c)				
110.		• A butt heat-fusion joint must be joined by a device that holds the heater element square to the ends of the piping, compresses the heated ends together, and holds the pipe in proper alignment while the plastic hardens281(c)(1)			X	
111.		• A socket heat-fusion joint must be joined by a device that heats the mating surfaces of the joint uniformly and simultaneously to essentially the same temperature281(c)(2)			X	
112.	480-93-180(1)	• An electro-fusion joint must be joined utilizing the equipment and techniques of the fittings manufacturer or equipment and techniques shown, by testing joints to the requirements of \$192.283(a)(1)(iii), to be at least equivalent to those of the fittings manufacturer281(c)(3)			X	
113.		Heat may not be applied with a torch or other open flame281(c)(4)			X	
114.		Each adhesive joint on plastic pipe must comply with the following: .281(d)				
115.		• The adhesive must conform to ASTM Designation: D 2517281(d)(1)			X	
116.		• The materials and adhesive must be compatible with each other281(d)(1)			X	
117.		Each compression type mechanical joint on plastic pipe must comply with the following: .281(e)				
118.		• The gasket material in the coupling must be compatible with the plastic281(e)(1)			X	
119.		• A rigid internal tubular stiffener, other than a split tubular stiffener, must be used in conjunction with the coupling281(e)(2)			X	
120.		Before any written procedure established under §192.273(b) is used for making plastic pipe joints by a heat fusion, solvent cement, or adhesive method, the procedure must be qualified by subjecting specimen joints made according to the procedure to the following tests: .283(a)				
121.		The burst test requirements of – .283(a)(1)				
122.		• Thermoplastic pipe: paragraph 6.6 (sustained pressure test) or paragraph 6.7 (Minimum Hydrostatic Burst Test) or paragraph 8.9 (Sustained Static pressure Test) of ASTM D2513 .283(a)(1)(i)			X	
123.		• Thermosetting plastic pipe: paragraph 8.5 (Minimum Hydrostatic Burst Pressure) or			X	

		paragraph 8.9 (Sustained Static Pressure Test) of ASTM D2517; or .283(a)(1)(ii)	
124.	480-93-180(1)	• Electro-fusion fittings for polyethylene pipe and tubing: paragraph 9.1 (Minimum Hydraulic Burst Pressure Test), paragraph 9.2 (Sustained Pressure Test), paragraph 9.3 (Tensile Strength Test), or paragraph 9.4 (Joint Integrity Tests) of ASTM Designation F1055283(a)(1)(iii)	X
125.		For procedures intended for lateral pipe connections, subject a specimen joint made from pipe sections joined at right angles according to the procedure to a force on the lateral pipe until failure occurs in the specimen. If failure initiates outside the joint area, the procedure qualifies for use; and, .283(a)(2)	X
126.		For procedures intended for non-lateral pipe connections, follow the tensile test requirements of ASTM D638, except that the test may be conducted at ambient temperature and humidity If the specimen elongates no less than 25 percent or failure initiates outside the joint area, the procedure qualifies for use283(a)(3)	X
127.		Before any written procedure established under §192.273(b) is used for making mechanical plastic pipe joints that are designed to withstand tensile forces, the procedure must be qualified by subjecting five specimen joints made according to the procedure to the following tensile test: .283(b)	
128.		Use an apparatus for the test as specified in ASTM D 638 (except for conditioning). .283(b)(1)	X
129.	480-93-180(1)	• The specimen must be of such length that the distance between the grips of the apparatus and the end of the stiffener does not affect the joint strength283(b)(2)	X
130.		• The speed of testing is 0.20 in. (5.0 mm) per minute, plus or minus 25 percent283(b)(3)	X
131.		• Pipe specimens less than 4 inches (102 mm) in diameter are qualified if the pipe yields to an elongation of no less than 25 percent or failure initiates outside the joint area283(b)(4)	X
132.		• Pipe specimens 4 inches (102 mm) and larger in diameter shall be pulled until the pipe is subjected to a tensile stress equal to or greater than the maximum thermal stress that would be produced by a temperature change of 100° F (38° C) or until the pipe is pulled from the fitting. If the pipe pulls from the fitting, the lowest value of the five test results or the manufacturer's rating, whichever is lower must be used in the design calculations for stress283(b)(5)	X
133.		• Each specimen that fails at the grips must be retested using new pipe283(b)(6)	X
134.		• Results pertain only to the specific outside diameter, and material of the pipe tested, except that testing of a heavier wall pipe may be used to qualify pipe of the same material but with a lesser wall thickness283(b)(7)	X
135.		A copy of each written procedure being used for joining plastic pipe must be available to the persons making and inspecting joints283(c)	X
136.		Pipe or fittings manufactured before July 1, 1980, may be used in accordance with procedures that the manufacturer certifies will produce a joint as strong as the pipe283(d)	X
137.		No person may make a plastic pipe joint unless that person has been qualified under the applicable joining procedure by: .285(a)	
138.		Appropriate training or experience in the use of the procedure; and .285(a)(1)	X
139.		Making a specimen joint from pipe sections joined according to the procedure that passes the inspection and test set forth in paragraph (b) of this section285(a)(2) The specimen joint must be: .285(b)	X
141.		Visually examined during and after assembly or joining and found to have the same	
	480-93-180(1)	appearance as a joint or photographs of a joint that is acceptable under the procedure; and .285(b)(1)	X
142.		• In the case of a heat fusion, solvent cement, or adhesive joint; .285(b)(2)	X
143.		Tested under any one of the test methods listed under §192.283(a) applicable to the type of joint and material being tested; .285(b)(2)(i)	X
144.		Examined by ultrasonic inspection and found not to contain flaws that may cause failure; or .285(b)(2)(ii)	X
145.		Cut into at least three longitudinal straps, each of which is: .285(b)(2)(iii)	X

146.	480-93-180(1)	Visually examined and found not to contain voids or discontinuities on the cut surfaces of the joint area; and .285(b)(2)(iii)(A)	X
147.		Deformed by bending, torque, or impact, and if failure occurs, it must not initiate in the joint area285(b)(2)(iii)(B)	X
148.		A person must be re-qualified under an applicable procedure, if during any 12-month period that person: .285(c)	
149.		Does not make any joints under that procedure; or .285(c)(1)	X
150.	480-93-180(1)	Has 3 joints or 3 percent of the joints made, whichever is greater, under that procedure that are found unacceptable by testing under §192.513285(c)(2)	X
151.		Each operator shall establish a method to determine that each person making joints in plastic pipelines in the operator's system is qualified in accordance with this section285(d)	X
		Plastic pipe joiners re-qualified 1/Yr (15 Months) 480-93-080 (2) (eff 6/02/05)	
152.		• Qualified written plastic joining procedures must be located on-site where plastic joining is being performed. 480-93-080(2)(a)	X
153.	480-93-180(1)	Plastic pipe joiners re-qualified if no production joints made during any 12 month period 480-93-080(2)(b) (eff 6/02/05)	X
154.		Tracking production joints or re-qualify joiners 1/Yr (12Months) 480-93-080(2)(c) (eff 6/02/05)	X
155.	480-93-180(1) / 192.273(b)	No person may carry out the inspection of joints in plastic pipes required by §§192.273(c) and 192.285(b) unless that person has been qualified by appropriate training or experience in evaluating the acceptability of plastic pipe joints made under the applicable joining procedure287	X

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SU	UBPART G – CO	ONSTRUCTION REQUIREMENTS for TRANSMISSION LINES and MAINS	S	U	N/A	N/C
156.		Compliance with specifications or standards. 192.303	X			
157.		Inspection of each transmission line and main during construction 192.305	X			
158.		Inspection of materials 192.307	X			
159.	480-93-180(1)	Repair of steel pipe 192.309 (a) thru (e) Note: The operator will normally replace pipe instead of repairing pipe.	X			
160.		Repair of plastic pipe. 192.311 N/A: Does not use plastic pipe			X	
161.		Bends and elbows. 192.313 (a) thru (c)	X			
162.		Wrinkle bends in steel pipe. 192.315 (a) & (b) N/A: Does not use field bends.			X	
163.		Protection from hazards 192.317 (a) thru (c)	X			
164.		Installation of Pipe in a ditch 192.319 (a) thru (c)	X			
165.		Installation of plastic pipe. 192.321 (a) thru (h) N/A: Does not use plastic pipe			X	
480-93-178 WAC			S	U	N/A	N/C

		PROTECTION OF PLASTIC PIPE (NOTE: This operator does not use plastic pipe)			
166.		Procedures for the storage, handling, and installation of plastic pipelines in accordance with the latest applicable manufacturers recommended practices. 480-93-178(1) eff 6/02/06) (See note above)		X	
167.		Stated acceptable time limit for maximum cumulative ultraviolet light exposure 480-93-178 (2) eff 6/02/06) (See note above)		X	
168.	480-93-180(1)	Separation requirements when installing plastic pipelines parallel to other underground utilities 480-93-178 (4) eff 6/02/06) (See note above)		X	
169.		Separation requirements when installing plastic pipelines perpendicular to other underground utilities 480-93-178 (5) eff 6/02/06) (See note above)		X	
170.		Casings 192.323 (a) thru (d)	X		
171.		Casing of pipelines. 480-93-115 (1) thru (4)	X		
172.		Underground clearance. 192.325 (a) thru (d).	X		
173.		Cover. 192.327 (a) thru (g)	X		

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Comments:		

			S	U	N/A	N/C
174.		Meters and service regulators installed at locations as prescribed under 192.353 (a) thru (d)			X	
175.	480-93-180 (1)	Service regulator vents and relief vents installed and protected from damage. Vaults housing meters and regulators protected from loading due to vehicular traffic. 192.355 (a) thru (c)			X	
176.	480-93-180 (1)	Meters and regulators installed to minimize stresses and insure that potential releases vent to outside atmosphere. 192.357 (a) thru (d)			X	
480-93-140 WAC SERVICE REGULATORS Note: The operator is not a local distribution company (LDC)			S	U	N/A	N/C
177.	480-93-180 (1)	Procedures for installing, operating, and maintaining service regulators in accordance with federal and state regulations, and manufacturer's recommended installation and maintenance practices. 480-93-140(1) (eff 6/02/05)			X	
178.		Procedures for inspecting and testing service regulators and associated safety devices during the initial turn-on, and when a customer experiences a pressure problem. Testing must include 480-93-140(2) (eff 6/02/05)			X	
179.		Minimum service line installation requirements as prescribed under 192.361 (a) thru (g)			X	

		SUBPART H - CUSTOMER METERS, SERVICE REGULATORS, and SERVICE LINES Note: The operator is not a local distribution company (LDC).		
180.		Location of service-line valves as prescribed under 192.365 (a) thru (c)	X	
181.	490 02 190 (1)	General requirements for locations of service-line connections to mains and use of compression fittings 192.367 (a) thru (b)(2)	X	
182.	<u> </u>	Connections of service lines to cast iron or ductile iron mains. 192.369 (a) thru (b)	X	
183.		Provisions for new service lines not in use 192.379 (a) thru (c)	X	
184.		Excess flow valve performance standards 192.381 (a) thru (e)	X	
185.		Excess flow valve customer notification. 192.383 (a) thru (f)	X	

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Comments:			

		SUBPART I - CORROSION CONTROL	S	U	N/A	N/C
186.	480-93-180(1)	Corrosion procedures established for the Design, Operations, Installation & Maintenance of CP systems, carried out by, or under the direction of, a person qualified in pipeline corrosion control methods .453	X			
187.	480-93-180(1)	For pipelines installed after July 31, 1971, buried segments must be externally coated and .455 (a) cathodically protected within one year after construction (see exceptions in code) .455 (b)	X			
188.	480-93-180(1)	Aluminum may not be installed in a buried or submerged pipeline if exposed to an environment with a natural pH in excess of 8 (see exceptions in code) .455 (c) N/A: The operator does not use aluminum pipe.			X	
189.	480-93-180(1)	All effectively coated steel transmission pipelines installed prior to August 1, 1971, must be cathodically protected .457 (a) Note: The hydrogen line was installed in 1988.			X	
190.		If installed before August 1, 1971, cathodic protection must be provided in areas of active corrosion for: bare or ineffectively coated transmission lines, and bare or coated c/s, regulator sta., meter sta. piping, and (except for cast iron or ductile iron) bare or coated distribution lines457 (b) Note: The hydrogen line was installed in 1988.			X	
191.		Written procedures explaining how cathodic protection related surveys, reads, and tests will be conducted. 480-93-110(4) (effective 6/02/05)	X			

		SUBPART I - CORROSION CONTROL	S	U	N/A	N/C
192.		Examination of buried pipeline when exposed: if corrosion is found, further investigation is required .459	X			
193.		Recording the condition of all underground metallic facilities each time the facilities are exposed. 480-93-110(6) (effective 6/02/05)	X			
194.		CP test reading on all exposed facilities where coating has been removed 480-93-110(8) (effective 6/02/05)	X			
195.	480-93-180(1)	Procedures must address the protective coating requirements of the regulations. External coating on the steel pipe must meet the requirements of this part461	S	U	N/A	N/C
196.		Cathodic protection level according to Appendix D criteria .463	X			
197.		Pipe-to-soil monitoring (1 per yr/15 months) .465(a)	X			
198.		Rectifier monitoring (6 per yr/2½ months) .465(b)	X			
199.		Interference bond monitoring (as required) .465(c) N/A: There is no interference bond.			X	
200.		Remedial action taken within 90 days (Up to 30 additional days if other circumstances. Must document) 480-93-110(2) (effective 6/02/05)	X			
201.	480-93-180(1)	Electrical surveys (closely spaced pipe to soil) on bare/unprotected lines, cathodically protect active corrosion areas (1 per 3 years/39 months) .465(e) N/A: There are no bare/unprotected lines or active corrosion areas.			X	
202.		Sufficient test stations to determine CP adequacy .469	X			
203.		Test lead maintenance .471				
204.		Interference currents .473 N/A: There are no interference currents.			X	
205.		Proper procedures for transporting corrosive gas? .475(a)	X			
206.		Written program to monitor for indications of internal corrosion. The program must also have remedial action requirements for areas where internal corrosion is detected. 480-93-110(7) (effective 6/02/05)	X			
207.		Removed pipe must be inspected for internal corrosion. If found, the adjacent pipe must be inspected to determine extent. Certain pipe must be replaced. Steps must be taken to minimize internal corrosion475(b)	X			
208.		Internal corrosion control coupon (or other suit. Means) monitoring (2 per yr/7½ months) .477 N/A: There are no internal corrosion control coupons installed in this line.			X	
209.		Each exposed pipe must be cleaned and coated (see exceptions under .479(c)) .479(a)	X			
210.		Offshore splash zones and soil-to-air interfaces must be coated Note: The soil-to-air interfaces were coated.	X			
211.	480-93-180(1)	• Coating material must be suitable .479(b)	X			
212.		Coating is not required where operator has proven that corrosion will: .479(c) Note: The entire line is coated.				
213.		1. Only be a light surface oxide, or .479(c)(1)			X	
214.		2. Not affect safe operation before next scheduled inspection .479(c)(2)			X	
215.		Written atmospheric corrosion control monitoring program. The program must have time frames for completing remedial action. 480-93-110(9) (effective 6/02/05)	X			
216.		Atmospheric corrosion control monitoring (1 per 3 yrs/39 months onshore; 1 per yr/15 months offshore) .481(a)	X			
217.		Special attention required at soil/air interfaces, thermal insulation, under dis-bonded coating, pipe supports, splash zones, deck penetrations, spans over water .481(b)	X			
218.		Protection must be provided if atmospheric corrosion is found (per §192.479) .481(c)	X			
219.		Replacement and required pipe must be coated and cathodically protected (see code for exceptions) .483	X			
220.		Procedures to replace pipe or reduce the MAOP if general corrosion has reduced the wall thickness? .485(a)	X			
221.	400.02.400/43	Procedures to replace/repair pipe or reduce MAOP if localized corrosion has reduced wall thickness (unless reliable engineering repair method exists)? .485(b)	X			
222.	480-93-180(1)	Procedures to use Rstreng or B-31G to determine remaining wall strength? .485(c) N/A: The operator will repair or replace the pipe section rather than using Rstreng or B-31G.			X	

		SUBPART I - CORROSION CONTROL	S	U	N/A	N/C
223.		Remedial measures (distribution lines other than cast iron or ductile iron) 487 N/A: The operator is not a LDC.			X	
224.		Remedial measures (cast iron and ductile iron pipelines).489 N/A: There is no cast iron or ductile iron pipelines.			X	
225.		Records retained for <u>each</u> cathodic protection test, survey, or inspection required by 49 CFR Subpart I, and chapter 480-93 WAC. 480-93-110 (effective 6/02/05)	X			
226.		Corrosion control maps and record retention (pipeline service life or 5 yrs) .491	X			
WAC 480-93-110 Corrosion Requirements				U	N/A	N/C
227.		Casings inspected/tested annually not to exceed fifteen months 480-93-110(5) (effective 6/02/05)	X			
228.	480-93-180(1)	Casings w/no test leads installed prior to 9/05/1992. Demonstrate other acceptable test methods 480-93-110(5)(a) (effective 6/02/05)	X			
229.		Possible shorted conditions – Perform confirmatory follow-up inspection within 90 days 480-93-110(5)(b) (effective 6/02/05)	X			
230.		Casing shorts cleared when practical 480-93-110(5)(c) (effective 6/02/05)	X			
231.	480-93-180(1)	Shorted conditions leak surveyed within 90 days of discovery. Twice annually/7.5 months 480-93-110(5)(d) (effective 6/02/05)	X			
232.		CP Test Equipment and Instruments checked for accuracy/intervals (Mfct Rec or Opr Sched) 480-93-110(3) (effective 6/02/05) Note: The annual CP surveys will be conducted by Norton Corrosion Limited.	X			

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	SUBPART J – TEST REQUIREMENTS			N/A	N/C
233.	Procedures to ensure that the provisions found under 192.503(a) thru (d) for new segments of pipeline, or Return to Service segments of pipeline which have been relocated or replaced are met.	X			
234.	Strength test requirements for steel pipeline to operate at a hoop stress of 30 percent or more of	X			

		SMYS. 192.505 (a) thru (e)			
235.	480-93-180(1)	Test requirements for pipelines to operate at a hoop stress less than 30 percent of SMYS and at or above 100 psig. 192.507 (a) thru (c)	X		
236.		Test requirements for pipelines to operate below 100 psig. 192.509 (a) & (b) N/A: The MAOP for this line is 150 psig.		X	
237.		Test requirements for service lines. 192.511 (a) thru (c) N/A: Does not have service lines		X	
238.		Test requirements for plastic pipelines. 192.513 (a) thru (d) N/A: Does not use plastic pipe		X	
239.		Environmental protection and safety requirements. 192.515 (a) & (b) Note: Hydro-test water is discharged into the plant's effluent system for treatment.	X		
240.		Records 192.517 Refer also to 480-93-170 (7) (a-h) below.	X		

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		WAC 480-93-170 PRESSURE TEST PROCEDURES	S	U	N/A	N/C
241.		Notification in writing, to the commission, at least two business days prior to any pressure test of a gas pipeline that will have a MAOP that produces a hoop stress of twenty percent or more of the SMYS 480-93-170(1) (eff 6/02/05) N/A: The MAOP for this line is 150 psig with a hoop stress of 5 percent of SMYS.			X	
242.		 In Class 3 or Class 4 locations, as defined in 49 CFR § 192.5, or within one hundred yards of a building, must be at least eight hours in duration. 480-93-170(1)(a) N/A: This line is in a class 1 location. 			X	
243.	480-93-180(1)	 When the test medium is to be a gas or compressible fluid, each operator must notify the appropriate public officials so that adequate public protection can be provided for during the test. 480-93-170(1)(b) N/A: The test medium is water. 			X	
244.		 In an emergency situation where it is necessary to maintain continuity of service, the requirements of subsection (1) of this section and subsection (1)(a) may be waived by notifying the commission by telephone prior to performing the test. 480-93-170(1)(c) N/A: This line is in a class 1 location. 			X	
245.		Minimum test pressure for any steel service line or main, must be determined by multiplying the intended MAOP by a factor determined in accordance with the table located in 49 CFR § 192.619 (a)(2)(ii). 480-93-170(2) Note: The test pressure is 1.5 times 150 psig.	X			
246.		Re-testing of service lines broken, pulled, or damaged, resulting in the interruption of gas supply to the customer, must be pressure tested from the point of damage to the service termination valve prior to being placed back into service. 480-93-170(4) N/A: Does not have service lines			X	
247.		Maintain records of all pressure tests performed for the life of the pipeline and document information as listed under 480-93-170(7) (a-h).	X			
248.	480-93-180(1)	Maintain records of each test where multiple pressure tests are performed on a single installation. 480-93-170(9) N/A: This line is in a class 1 location.			X	
249.		Pressure testing equipment must be maintained, tested for accuracy, or calibrated, in accordance	X			

		with the manufacturer's recommendations. 480-93-170(10)			
250.		 When there are no manufacturer's recommendations, then tested at an appropriate schedule determined by the operator. 	X		
251.		Test equipment must be tagged with the calibration or accuracy check expiration date.	X		
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	SUBPART K – UPRATING					
	Note: This hydrogen line will not be uprated.					
		Provisions for meeting the minimum requirements for increasing maximum allowable operating pressure (uprating) for pipelines.	S	U	N/A	N/C
252.		General requirements. 192.553 (a) thru (d)			X	
253.	480-93-180(1)	Uprating to a pressure that will produce a hoop stress of 30 % or more of SMYS in steel pipelines. 192.555 (a) thru (e)			X	
254.		Uprating: Steel pipelines to a pressure that will produce a hoop stress less than 30 % of SMYS: (plastic, iron, and ductile iron pipelines.) 192.557 (a) thru (d)			X	
		WAC 480-93-155 – UPRATING				
		Note: This hydrogen line will not be uprated.				
255.		Notification of uprate and submission of written plan 480-93-155 (1)			X	
256.	480-93-180(1)	Content of written plan 480-93-155 (1) (a) thru (j)			X	
257.	400-23-100(1)	Uprates must be based on a previous or current pressure test that will substantiate the intended MAOP. 480-93-155 (2)			X	

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		SU	BPART L - OPERATIONS		S	U	N/A	N/C
258.		Procedural Manual R	eview – Operations and Maintenance (1 per yr/15 me	onths) 192.605(a)	X			
259.			ruction records, maps, operating history to operating		X			
260.		Start up and shut dow 192.605(b)(5)	n of the pipeline to assure operation within MAOP p	plus allowable buildup	X			
261.	480-93-180(1) /	Periodic review of pe	ersonnel work – effectiveness of normal O&M proceed	dures 192.605(b)(8)	X			
262.	Taking adequate precautions in excavated trenches to protect personnel from the hazards of unsafe accumulations of vapors or gas, and making available when needed at the excavation, emergency rescue							
263.	equipment, including a breathing apparatus and a rescue harness and line 192.605(b)(9) Routine inspection and testing of pipe-type or bottle-type holders 192.605(b)(10) N/A: There are no pipe-type or bottle-type holders. Responding promptly to a report of a gas odor inside or near a building, unless the operator's emergency procedures under §192.615(a) (3) specifically apply to these reports. 192.605(b)(11) N/A: The operator is not a LDC.						v	
251							X	
264.							X	
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	ments:		CUDDADT I ODED A TIONS					
		ABNORMAL	SUBPART L – OPERATIONS OPERATING PROCEDURES – TRANSM	ISSION LINES				
		Procedures for respor	nding to, investigating, and correcting the cause of:	192.605(c)(1)	S	U	N/A	N/C
265.			l closure of valves or shut downs 192.605(c)(1)(i the hydrogen supplier's line in Weyerhaeuser pro				X	
266.			r decrease in pressure or flow rate outside of no (1)(ii) N/A: The relief valve set pressure is 70 p				X	
267.	480-93-180(1) / 192.605(a)	with hydro	ogen supplier by land line and by cell phone as a b		X			
268.		_	ion of any safety device 192.605(c)(1)(iv) N/A: The on the hydrogen supplier piping.	e pressure relief valve			X	

	SUBPART L – OPERATIONS			
	ABNORMAL OPERATING PROCEDURES – TRANSMISSION LINES			
269.	 Malfunction of a component, deviation from normal operations or personnel error 192.605(c)(1)(v) 	X		
270.	Checking variations from normal operation after abnormal operations ended at sufficient critical locations 192.605(c)(2)	X		
271.	Notifying the responsible operating personnel when notice of an abnormal operation is received $192.605(c)(3)$	X		
272.	Periodic review of personnel work – effectiveness of abnormal operation procedures 192.605 (c)(4)	X		

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	SUB	SPART – L CHANGE in CLASS LOCATION PROCEDURES	S	U	N/A	N/C
273.	480-93-180(1) /	Class location study 192.609 Note: The class location for the hydrogen				
	192.605(a)	line is 1 and it is not likely to change at least in the near future.	Λ			
274.		Confirmation or revision of MAOP 192.611	X			

	SUI	BPART – L CONTINUING SURVEILLANCE PROCEDURES	S	U	N/A	N/C
275.	192.613	Procedures for surveillance and required actions relating to change in class location, failures, leakage history, corrosion, substantial changes in CP requirements, and unusual operating and maintenance conditions 192.613(a)	X			
276.	192.613	Procedures requiring MAOP to be reduced, or other actions to be taken, if a segment of pipeline is in unsatisfactory condition 192.613(b) <i>Notes: The pipeline will be shut down in such case.</i>			X	

	SUBPA	ART – L DAMAGE PREVENTION PROGRAM PROCEDURES	S	U	N/A	N/C
277.		Participation in a qualified one-call program, or if available, a company program that complies with the following:	X			
278.		Identify persons who engage in excavating .614(c)(1)	X			
279.		Provide notification to the public in the One Call area .614(c) (2)	X			
280.		Provide means for receiving and recording notifications of pending excavations .614(c) (3)	X			
281.	480-93-180(1) /	Provide notification of pending excavations to the members .614(c) (4)	X			
282.	192.605(a)	Provide means of temporary marking for the pipeline in the vicinity of the excavations .614(c) (5)	X			
283.		Provides for follow-up inspection of the pipeline where there is reason to believe the pipeline could be damaged $.614(c)$ (6)	X			
284.		Inspection must be done to verify integrity of the pipeline .614(c)(6)(i)	X			
285.	After blasting, a leak survey must be conducted as part of the inspection by the operator .614(c)(6)(ii) N/A: No blasting is expected adjacent to the pipeline.				X	

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		SUBPART – I	EMERGENCY PROCEDURES		S	U	N/A	N/C
207				. 1.	В		1 1/11	11/0
286.		•	g, and classifying notices of events which require	immediate response	\mathbf{X}			
287.		by the operator .615(in communication with appropriate public official	ls recording possible				
207.		emergency .615(a)(2		is regarding possible	X			
288.			ich of the following emergencies: .615(a)(3)		X			
289.	480-93-180(1)/		e a building N/A: This operator is not a LDC.				X	
290.	192.615	(ii) Fire located near	<u> </u>		X			
291.		(iii) Explosion near a	* *		X			
292.		(iv) Natural disaster			X			
293.		Availability of person	anel, equipment, instruments, tools, and material rec	uired at the scene of	**			
		an emergency .615(a			X			
294.			rds protecting people first, then property .615(a)(5)		X			
295.			or pressure reduction to minimize hazards to life or J	property .615(a)(6)	X			
296.			al or potential hazard to life or property $.615(a)(7)$		X			
297.			e public officials required at the emergency sce	ne and coordinating	X			
200			sponses with these officials .615(a)(8)	1 1 6 (15()(0)				
298.			ing service outages after the emergency has been ren	dered sate .615(a)(9)			X	
299.	480-93-180(1) /	N/A: The operator is	e portions of the emergency plan to supervisory	narconnal who are				
299.	192.615		ency action $.615(b)(1)$	personner who are	X			
300.			employees as to the requirements of the emergence	y nlan and verifying				
200.		effectiveness of traini	$\frac{1}{2}$ $\frac{1}$	y plan and verifying	X			
301.			following emergencies to determine if the proce	dures were effective	X 7			
		.615(b)(3)			X			
302.		Establish and maintai	n liaison with appropriate public officials, such that	both the operator and				
			aware of each other's resources and capabilities		X			
			Note: The Plant Manager is a member of th	e Local Emergency	∠ \$			
		Planning Committee	(LEPC).					
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l	omments:
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		SUBPART – L PUBLIC AWARENESS PROCEDUR			S	U	N/A	N/C
303.	480-93-180(1) /	Public Awareness Program in accordance with API RP 1162 [H June 20, 2006] Amdt 192-99 pub. 5/19/05, eff. 06/20/05 .616(a)	HQ clearingh	ouse review after	X			
304.	` ′	· · ·			X			
	S	UBPART – L FAILURE INVESTIGATION PROCEDU	URES		S	U	N/A	N/C
305.	305. 480-93-180(1) / Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence .617		X					
Doca	umentation Revie	wed.						
Doct	Documen Documen			Revis	ion Da	ate		
Com	ments:							
		SUBPART – L MAOP PROCEDURES			S	U	N/A	N/C
306.		Establishing MAOP so that it is commensurate with the class located	ation .619		X			
307.	480-93-180(1)	MAOP cannot exceed the lowest of the following:			N/			
308. 309.	192.003(a)	92.605(a) MAOP cannot exceed the lowest of the following: Design pressure of the weakest element; .619(a)(1) Test pressure divided by applicable factor .619(a)(2) (Note: The test pressure was		X				
310.	480-93-180(1) /			est pressure was	X			
	192.605(a)	 Test pressure divided by applicable factor .619(a)(2) 225 psig and the MAOP is 150 psig. The factor is 1.5. The highest actual operating pressure to which the seduring the 5 years preceding the applicable date in secon was tested according to .619(a)(2) after the applicable desegment was uprated according to subpart K619(a)(3) 	segment of line ond column, under the the	ne was subjected nless the segment	X			
	192.605(a)	225 psig and the MAOP is 150 psig. The factor is 1.5.	segment of line ond column, u date in the three (3) essure date arch 15, 2006, or date line becomes subject to this part, whichever is later.	ne was subjected nless the segment	X		X	
311.	192.605(a)	225 psig and the MAOP is 150 psig. The factor is 1.5.	segment of line and column, undate in the three (3) ressure date arch 15, 2006, or date line becomes subject to this part, whichever is later.	Test date Test date 5 years preceding applicable date in second column. July 1, 1965.	X		X	

	480-93-180(1)	(See note above)	
313.	192.605(a)	• The requirements on pressure restrictions in this section do not apply in the following instance. An operator may operate a segment of pipeline found to be in satisfactory condition, considering its operating and maintenance history, at the highest actual operating pressure to which the segment was subjected during the 5 years preceding the applicable date in the second column of the table in paragraph (a)(3) of this section. An operator must still comply with § 192.611 .619(c) (See note above)	X
314.		MAOP - High Pressure Distribution Systems .621 N/A: The operator is not a LDC.	X
315.		Max./Min. Allowable Operating Pressure - Low Pressure Distribution Systems .623 N/A: The operator is not a LDC.	X

Document Title	Document/Section Number	Revision Date

Comments:			

		WAC 480-93-015 ODORIZATION PROCEDURES Notes: The hydrogen gas is not odorized.	S	U	N/A	N/C
316.		Odorization of gas at the proper concentration in air 480-93-015 (1)			X	
317. 318.	400 02 100(1)	Use of odorant testing instrumentation/Monthly testing interval 480-93-015 (2) (eff 6/02/05)			X	
318.	480-93-180(1)	Odorant Testing Equipment Calibration/Intervals (Annually or Manufacturers Recommendation) 480-93-015 (3) (eff 6/02/05)			X	
319.	480-93-180(1)	Records maintained for usage, odorant tests performed and equipment calibration (5yrs) 480-93-015(4) (eff 6/02/05)			X	

Documentation Reviewed:						
Document Title	Document/Section Number	Revision Date				

Co	omments:	 	

S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked If an item is marked U, N/A, or N/C, an explanation must be included in this report.

S U N/A N/C

SUBPART – L TAPPING PIPELINES UNDER PRESSURE PROCEDURES

320.		Hot taps must be ma	de by a qualified crew NDT testing is suggested	prior to tapping the pipe				
		1	de by a quantied crew ND1 testing is suggested	prior to tapping the pipe.				
		Reference API RP 22	201 for Best Practices627					
	480-93-180(1) N/A: The operator has the flexibility to shut the line down without shutting down the						X	
	plant. It can make up the lost hydrogen supply by using more natural gas through the 4"							
		_		0				
		naturai gas suppiy i	ine from Weyerhaeuser.					
		SUBPART – L	PIPELINE PURGING PROCEDURES		S	U	N/A	N/C
321.		Purging of pipelines	must be done to prevent entrapment of an explosi-	ve mixture in the pipeline				
	480-93-180(1)	.629			X			
322.	480-93-180(1)		air must be properly purged.		X			
323.	480-93-180(1)	(b) Lines containing	gas must be properly purged		X			
Docu	mentation Revie							
	Documer	nt Title	Document/Section Number	Revis	ion D	ate		
		SUBPART – M	MAINTENANCE PROCEDURES		S	U	N/A	N/C
324.	400.02.100(1)	SUBPART – M Each segment of pip		paired, or removed from	S	U	N/A	N/C
324.	480-93-180(1)	Each segment of pip Service .703(b)	peline that becomes unsafe must be replaced, re	paired, or removed from	S	U	N/A	N/C
324. 325.	480-93-180(1) 480-93-180(1)	Each segment of pip Service .703(b)		paired, or removed from		U	N/A	N/C
325.	480-93-180(1)	Each segment of pip Service .703(b) Hazardous leaks mus	peline that becomes unsafe must be replaced, re	paired, or removed from	X	U	N/A	N/C
325.		Each segment of pip Service .703(b) Hazardous leaks mus	peline that becomes unsafe must be replaced, re	paired, or removed from	X	U	N/A	N/C
325.	480-93-180(1)	Each segment of pip Service .703(b) Hazardous leaks musewed:	peline that becomes unsafe must be replaced, re		X		N/A	N/C
325.	480-93-180(1) mentation Revie	Each segment of pip Service .703(b) Hazardous leaks musewed:	beline that becomes unsafe must be replaced, rest be repaired promptly .703(c)		X		N/A	N/C
325.	480-93-180(1) mentation Revie	Each segment of pip Service .703(b) Hazardous leaks musewed:	beline that becomes unsafe must be replaced, rest be repaired promptly .703(c)		X		N/A	N/C
325.	480-93-180(1) mentation Revie	Each segment of pip Service .703(b) Hazardous leaks musewed:	beline that becomes unsafe must be replaced, rest be repaired promptly .703(c)		X		N/A	N/C
325.	480-93-180(1) mentation Revie	Each segment of pip Service .703(b) Hazardous leaks musewed:	beline that becomes unsafe must be replaced, rest be repaired promptly .703(c)		X		N/A	N/C
325.	480-93-180(1) mentation Revie	Each segment of pip Service .703(b) Hazardous leaks musewed:	beline that becomes unsafe must be replaced, rest be repaired promptly .703(c)		X		N/A	N/C
325.	480-93-180(1) mentation Revie	Each segment of pip Service .703(b) Hazardous leaks musewed:	beline that becomes unsafe must be replaced, rest be repaired promptly .703(c)		X		N/A	N/C
325.	480-93-180(1) mentation Revie Documen	Each segment of pip Service .703(b) Hazardous leaks musewed:	beline that becomes unsafe must be replaced, rest be repaired promptly .703(c)		X		N/A	N/C
Documents and the second secon	480-93-180(1) mentation Revie Documen	Each segment of pip Service .703(b) Hazardous leaks musewed:	beline that becomes unsafe must be replaced, rest be repaired promptly .703(c)		X		N/A	N/C
Documents and the second secon	480-93-180(1) mentation Revie Documen	Each segment of pip Service .703(b) Hazardous leaks musewed:	beline that becomes unsafe must be replaced, rest be repaired promptly .703(c)		X		N/A	N/C
Documents and the second secon	480-93-180(1) mentation Revie Documen	Each segment of pip Service .703(b) Hazardous leaks musewed:	beline that becomes unsafe must be replaced, rest be repaired promptly .703(c)		X		N/A	N/C
Documents and the second secon	480-93-180(1) mentation Revie Documen	Each segment of pip Service .703(b) Hazardous leaks musewed:	beline that becomes unsafe must be replaced, rest be repaired promptly .703(c)		X		N/A	N/C
Documents and the second secon	480-93-180(1) mentation Revie Documen	Each segment of pip Service .703(b) Hazardous leaks musewed:	beline that becomes unsafe must be replaced, rest be repaired promptly .703(c)		X		N/A	N/C
Documents and the second secon	480-93-180(1) mentation Revie Documen	Each segment of pip Service .703(b) Hazardous leaks musewed:	Document/Section Number		X			
Documents and the second secon	480-93-180(1) mentation Revie Document nents:	Each segment of pip Service .703(b) Hazardous leaks musewed: nt Title	Document/Section Number SUBPART - M	Revis	X		N/A	
Documents and the second secon	480-93-180(1) mentation Revie Document nents:	Each segment of pip Service .703(b) Hazardous leaks musewed: nt Title SSION LINES - PA	Document/Section Number	Revis	x x sion D	ate		N/C

327.		Maximum interval betw	een patrols of lines: .705 (b)			
		Class Location	At Highway and Railroad Crossings	At All Other Places		
	480-93-180(1)	1 and 2	2/yr (7½ months)	1/yr (15 months)	X	
	/192.605(b)	3	4/yr (4½ months)	2/yr (7½ months)		
		4	4/yr (4½ months)	4/yr (4½ months)		
328.		Leakage surveys – 1 yea	ar/15 months .706		X	
329.		Leak detector equipmen (N/A - All pipelines in V	t survey requirements for lines trans WA require odorization)	sporting un-odorized gas		

		WAC 480-93-185 GAS LEAK INVESTIGATION	S	U	N/A	N/C
		Procedures for the prompt investigation of any notification of a leak, explosion, or fire, which may involve gas pipelines or other gas facilities.				
330.	480-93-180(1)	• received from any outside source such as a police or fire department, other utility, contractor, customer, or the general public 480-93-185(1)	X			
331.	480-93-180(1)	• Grade leak in accordance with WAC 480-93-186, and take appropriate action 480-93-185(1) N/A: The leak will be repaired immediately by the operator.			X	
332.	480-93-180(1)	• Retain the leak investigation record for the life of the pipeline. 480-93-185(1) This verbiage needs to be added to the manual.		X		
333.	480-93-180(1)	Prevent removal of any suspected gas facility until the commission or the lead investigative authority has designated the release of the gas facility and keep the facility intact until directed by the lead investigative authority 480-93-185(2)	X			
334.	480-93-180(1)	Taking appropriate action when leak indications originating from a foreign source. Notification requirements. 480-93-185(3)	X			

		WAC 480-93-186 LEAK EVALUATION	S	U	N/A	N/C
335.	480-93-180(1)	Grade leaks as defined in WAC 480-93-18601 to establish the leak repair priority. 480-93-186(1) N/A: The leak will be repaired immediately by the operator.			X	
336.	480-93-180(1)	procedure for evaluating the concentration and extent of gas leakage 480-93-186(2) N/A: The leak will be repaired immediately by the operator.			X	
337.	480-93-180(1)	Use of a combustible gas indicator to check the perimeter of a leak area. Follow-up inspection on repaired leaks no later than thirty days following repair. 480-93-186(3) N/A: The operator will use cut-out for repair (no leak clamps).			X	
338.	480-93-180(1)	Grade 1 and 2 leaks downgraded once to Grade 3 leak without a physical repair. After downgrade, repair must be made not to exceed twenty-one months 480-93-186(4) N/A: The leak will be repaired immediately by the operator.			X	

Documentation Reviewed:						
Document Title	Document/Section Number	Revision Date				

Comments:			
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	WAC480-93187 GAS LEAK RECORDS			U	N/A	N/C
		Gas leak records must contain, at a minimum, the criteria outlined in 480-93-187 (1-13)				
339.	480-93-180(1)	1) Date and time the leak was detected, investigated, reported, and repaired, and the name of the employee(s) conducting the investigation; (2) Location of the leak (sufficiently described to allow ready location by other qualified personnel); (3) Leak grade; (4) Pipeline classification (e.g., distribution, transmission, service); (5) If reported by an outside party, the name and address of the reporting party; (6) Component that leaked (e.g., pipe, tee, flange, valve); (7) Size and material that leaked (e.g., steel, plastic, cast iron); (8) Pipe condition; (9) Type of repair; (10) Leak cause; (11) Date pipe installed (if known); (12) Magnitude and location of CGI readings left; and (13) Unique identification numbers (such as serial numbers) of leak detection equipment.	X			

Document Title	Document/Section Number	Revision Date

Comments:			

		WAC 480-93-188 GAS LEAK SURVEYS	S	U	N/A	N/C
340.		gas leak surveys using a gas detection instrument covering areas listed in 480-93-188(1)(a-e)	X			
341.		Gas detection instruments tested for accuracy/intervals (Mfct rec or monthly not to exceed 45 days) 480-93-188(2) effective 6/2/05	X			
342.		Surveys conducted according to the minimum frequencies outlined under 480-93-188(3)(a-d)	X			
343.	480-93-180(1)	Surveys conducted under the following circumstances outlined under 480-93-188(4)(a-e)	X			
344.		Survey records must be kept for a minimum of five years and contain information required under 480-93-188(5)(a-f) This verbiage needs to be added to the manual.		X		
345.		Self audits as necessary, but not to exceed three years between audits and meet the criteria outlined under 480-93-188(6)(a-e)	X			

Document Title	Document/Section Number	Revision Date

S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked If an item is marked U, N/A, or N/C, an explanation must be included in this report.

Comments:

360.

480-93-180(1) / 192.605 (b)

		DIDEI I	NE MARKERS PROCEDURES	S	U	N/A	N/C
346.			Placement of markers - railroad, road, irrigation and drainage ditch crossings 480-93-124 (1)			1\/A	IN/C
		(effective 6/02/05)		X			
347.	-		ters - Separation/Other locations 480-93-124 (3) (eff 6/02/05) & 192.707	X			
348.			nd of bridges or other spans / Inspected 1/YR (15 Months) 480-93-124 (3) ve any bridges or spans			X	
349.	480-93-180(1)		missing or damaged replaced within 45 days? 480-93-124(4) (effective	X			
350.	1	Surveys of pipelin	e markers – Not to exceed 5/YR Records 10/Yrs minimum 480-93-	X			
351.	-	Maintain maps, dra	awings or other records indicating class locations and other areas where	<u> </u>			
001.		pipeline markers a		X			
	Document 7	Titlo	Document/Section Number Revision	n Doto			
	Document	liue	Document/Section Number Revision	ш раке			
352.		TD A NGMISSIO	SUBPART - M	S	U	N/A	N/C
353.			N RECORD KEEPING PROCEDURES		U	N/A	N/C
		Records must be m	N RECORD KEEPING PROCEDURES	S X X	U	N/A	N/C
354.	480-93-180(1) / 192.605 (b)	Records must be m (a) Repairs to the (b) Repairs to "otl	N RECORD KEEPING PROCEDURES naintained709 pipe – life of system her than pipe" – 5 years	X	U	N/A	N/C
354. 355.		Records must be m (a) Repairs to the (b) Repairs to "otl	N RECORD KEEPING PROCEDURES naintained709 pipe – life of system	X	U	N/A	N/C
		Records must be m (a) Repairs to the (b) Repairs to "otl (c) Operation (Sul	N RECORD KEEPING PROCEDURES naintained709 pipe – life of system her than pipe" – 5 years	X X X	U	N/A	N/C
		Records must be m (a) Repairs to the (b) Repairs to "otl (c) Operation (Sul	N RECORD KEEPING PROCEDURES maintained709 pipe – life of system ther than pipe" – 5 years b L) and Maintenance (Sub M) patrols, surveys, tests – 5 years or until next SUBPART - M	X X X X			
		Records must be m (a) Repairs to the (b) Repairs to "otl (c) Operation (Sul	naintained709 pipe – life of system her than pipe" – 5 years b L) and Maintenance (Sub M) patrols, surveys, tests – 5 years or until next	X X X	U	N/A	
		Records must be m (a) Repairs to the (b) Repairs to "otl (c) Operation (Sul	In RECORD KEEPING PROCEDURES maintained709 pipe – life of system ther than pipe" – 5 years b L) and Maintenance (Sub M) patrols, surveys, tests – 5 years or until next SUBPART - M N LINE FIELD REPAIR PROCEDURES Imperfections and Damages	X X X X			
	192.605 (b)	Records must be m (a) Repairs to the (b) Repairs to "otl (c) Operation (Sult one TRANSMISSION Repairs of imperference in the MAOI	IN RECORD KEEPING PROCEDURES naintained709 pipe – life of system her than pipe" – 5 years b L) and Maintenance (Sub M) patrols, surveys, tests – 5 years or until next SUBPART - M N LINE FIELD REPAIR PROCEDURES	X X X X			N/C
355.	192.605 (b) 480-93-180(1) /	Records must be m (a) Repairs to the (b) Repairs to "otl (c) Operation (Sulone TRANSMISSION Repairs of imperfer Note: The MAOI psig). • Cut out	N RECORD KEEPING PROCEDURES maintained	X X X X			
355.	192.605 (b)	Records must be m (a) Repairs to the (b) Repairs to "otl (c) Operation (Sulone TRANSMISSION Repairs of imperfer Note: The MAON psig). • Cut out .713(a)(N RECORD KEEPING PROCEDURES naintained709 pipe – life of system her than pipe" – 5 years b L) and Maintenance (Sub M) patrols, surveys, tests – 5 years or until next SUBPART - M N LINE FIELD REPAIR PROCEDURES Imperfections and Damages ections and damages on pipelines operating above 40% SMYS P of 150 psig produces a hoop stress of 1775 psig. It is 5% SMYS (35,000)	X X X X		N/A	
355. 356.	192.605 (b) 480-93-180(1) /	Records must be m (a) Repairs to the (b) Repairs to "otl (c) Operation (Sulone TRANSMISSION Repairs of imperference in the MAOR points of the	In RECORD KEEPING PROCEDURES maintained709 pipe – life of system ther than pipe" – 5 years b L) and Maintenance (Sub M) patrols, surveys, tests – 5 years or until next SUBPART - M N LINE FIELD REPAIR PROCEDURES Imperfections and Damages extitions and damages on pipelines operating above 40% SMYS P of 150 psig produces a hoop stress of 1775 psig. It is 5% SMYS (35,000 a cylindrical piece of pipe and replace with pipe of ≥ design strength 1) (See note above) reliable engineering method .713(a)(2) (See note above) pressure to a safe level during the repair .713(b) N/A: The line will be	X X X X		N/A X	

 \mathbf{X}

Welds found to be unacceptable under §192.241(c) must be repaired by: .715

(a) Taking the line out of service and repairing in accordance with §192.245:

		SUBPART - M TRANSMISSION LINE FIELD REPAIR PROCEDURES	S	U	N/A	N/C
362.		Cracks longer than 8% of the weld length (except offshore) must be removed	X			
363.		For each weld that is repaired, the defect must be removed down to clean metal and the pipe preheated if conditions demand it	X			
364.		Repairs must be inspected to ensure acceptability	X			
365.		• Crack repairs or defect repairs in previously repaired areas must be done in accordance with qualified written welding procedures N/A: The defects will be removed instead of being repaired.			X	
366.		(b) If the line remains in service, the weld may be repaired in accordance with §192.245 if:				
367.		• The weld is not leaking (1) N/A: The line will be shut down for repair.			X	•
368.		• The pressure is reduced to produce a stress that is 20% of SMYS or less (2)			X	
369.		• Grinding is limited so that 1/8 inch of pipe weld remains (3)			X	
370.		• If the weld cannot be repaired in accordance with (a) or (b) above, a full encirclement welded split sleeve must be installed (c)			X	
		Permanent Field Repair of Leaks				
371.		Field repairs of leaks must be made as follows: .717				
372.		Replace by cutting out a cylinder and replace with pipe similar or of greater design (a)	X			
373.	480-93-180(1) / 192.605 (b)	• Install a full encirclement welded split sleeve of an appropriate design unless the pipe is joined by mechanical couplings and operates at less than 40% SMYS (b)(1) N/A: The operator will not use sleeve for repairs. The only acceptable repair is by cut out.			X	
374.		• A leak due to a corrosion pit may be repaired by installing a bolt on leak clamp (b)(2) N/A: The operator will not use clamps for repairs. The only acceptable repair is by cut out.			X	
375.	480-93-180(1) / 192.605 (b)	 For a corrosion pit leak, if a pipe is not more than 40,000 psi SMYS, the pits may be repaired by fillet welding a steel plate. The plate must have rounded corners and the same thickness or greater than the pipe, and not more than ½D of the pipe size (b)(3) N/A: The only acceptable repair method is by cutting out the defect. 			x	
376.		• Submerged offshore pipe or pipe in inland navigable waterways may be repaired with a mechanically applied full encirclement split sleeve of appropriate design (b)(4) N/A: The hydrogen line is onshore and not crossing inland navigable waterways.			X	
377.		• Apply reliable engineering method (b)(5) N/A: The line will be cut out and replaced.			X	
		Testing of Repairs				
378.		Replacement pipe must be pressure tested to meet the requirements of a new pipeline .719(a)				
379.	480-93-180(1) / 192.605 (b)	(b) For lines of 6-inch diameter or larger and that operate at 20% of more of SMYS, the repair must be nondestructively tested in accordance with §192.241(c) N/A: The line operates at 5% SMYS.			x	

Document Title	Document/Section Number	Revision Date
Comments:		

S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked If an item is marked U, N/A, or N/C, an explanation must be included in this report.

	SUBPART - M DISTRIBUTION SYSTEM PATROLLING & LEAKAGE SURVEY PROCEDURES Notes: The operator is not a LDC.			U	N/A	N/C
380.		Frequency of patrolling mains must be determined by the severity of the conditions which could cause failure or leakage (i.e., consider cast iron, weather conditions, known slip areas, etc.) .721(a)			X	
381.		Patrolling surveys are required in business districts at intervals not exceeding 4½ months, but at least four times each calendar year .721 (b)(1)			X	
382.	480-93-180(1) / 192.605 (b)	Patrolling surveys are required outside business districts at intervals not exceeding 7½ months, but at least twice each calendar year .721 (b)(2)			X	
383.		Periodic leak surveys determined by the nature of the operations and conditions723 (a)& (b)			X	
384.		In business districts as specified, 1/yr (15 months) .723(b)(1)			X	
385.		Outside of business districts as specified, once every 5 calendar years/63 mos.; for unprotected lines subject to .465(e) where electrical surveys are impractical, once every 3 years/39 mos723 (b)(2)			X	

	SUBPART - M TEST REQUIREMENTS FOR REINSTATING SERVICE LINES Notes: The operator is not a LDC.			U	N/A	N/C
386.	480-93-180(1) /	Except for .725(b), disconnected service lines must be tested the same as a new service line725(a)			X	
387.	192.605 (b)	Service lines that are temporarily disconnected must be tested from the point of disconnection, the same as a new service line, before reconnect. See code for exception to this725(b)			X	

Document Title	Document/Section Number	Revision Date

Comments:

	ABAN	SUBPART - M DONMENT or DEACTIVATION of FACILITIES PROCEDURES	S	U	N/A	N/C
388.		Operator must disconnect both ends, purge, and seal each end before abandonment or a period of deactivation where the pipeline is not being maintained. Offshore abandoned pipelines must be filled with water or an inert material, with the ends sealed .727(b)	X			
389.		Except for service lines, each inactive pipeline that is not being maintained under Part 192 must be disconnected from all gas sources/supplies, purged, and sealed at each end727 (c)	X			
390.		Whenever service to a customer is discontinued, do the procedures indicate one of the following: .727(d)				
391.	480-93-180(1) / 192.605 (b)	The valve that is closed to prevent the flow of gas to the customer must be provided with a locking device or other means designed to prevent the opening of the valve by persons other than those authorized by the operator .727(d) (1) N/A: Only authorized persons have access			X	
392.		A mechanical device or fitting that will prevent the flow of gas must be installed in the service line or in the meter assembly .727(d)(2) N/A: Does not have any service lines or meters			X	
393.		The customer's piping must be physically disconnected from the gas supply and the open pipe ends sealed.727(d) (3) N/A: There is no customer piping .			X	
394.		If air is used for purging, the operator shall ensure that a combustible mixture is not present after purging .727 (e) Note: Not included in the manual		X		

Document Title	395.					abandoning underwater facilities727(g) N/A: Does not cross				X	
SUBPART - M PRESSURE LIMITING and REGULATING STATION PROCEDURES Notes: There are no pressure limiting stations, relief devices, and pressure regulating stations on the iurisdictional section of this pipeline Notes		Doormon	4 T:4	<u> </u>	Door	mont/Costion Number	Dovis	rion D)oto		
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Age-93-180(1) / 192.605 (b) Age-	396.						relief devices, pressure			x	
Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed .739(a)(2) Set to control or relieve at correct pressures consistent with .201(a), except for .739(b)739(a) X	207										-
480-93-180(1) 192.605 (b) 28c to control or relieve at correct pressures consistent with .201(a), except for .739(b)739(a) X 280-93-180(1) 192.605 (b) 280		480-93-180(1) / 192.605 (b)					or the service in which it				+
192.605 (b) 192.6	270.		is e	mployed .739(a)(2)					X	
Properly installed and protected from dirt, liquids, other conditions that may prevent proper oper. 739(a)(4) For steel lines if MAOP is determined per .619(c) and the MAOP is 60 psi gage or more	399.			to control or rel	ieve at correct pre	essures consistent with .201(a), ex	cept for .739(b)739(a)			X	
401. For steel lines if MAOP is determined per .619(c) and the MAOP is 60 psi gage or more	400			nerly installed a	nd protected from	n dirt liquids other conditions t	hat may prevent proper				1
401. For steel lines if MAOP is determined per .619(c) and the MAOP is 60 psi gage or more	700.				na protected from	in unit, inquius, ouici conditions t	nat may prevent proper			X	
480-93-180(1) / 192.605 (b) 480-93-180(1) / 192.605 (b) 480-93-180(1) / 192.605 (b) 403. 480-93-180(1) / 192.605 (b) Document Title Document/Section Number Revision Date	401.		For	steel lines if M.	AOP is determine	ed per .619(c) and the MAOP is 6	0 psi gage or more				
480-93-180(1) / 192.605 (b) 480-93-180(1) / 192.605 (b) 403. 480-93-180(1) / 192.605 (b) Document Title Document/Section Number States that a percent of SMYS A pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP X Testing of Relief Devices .743 (a) thru (c) X Testing of Relief Devices .743 (a) thru (c) A pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP X Testing of Relief Devices .743 (a) thru (c) X Testing of Relief Devices .743 (a) thru (c) Revision Date	402.					Then the pressure	limit is:				
480-93-180(1) / 192.605 (b) Is unknown as a percent of SMYS 480-93-180(1) / 192.605 (b) Pressure limiting and regulating stations: Telemetering or recording gages 192.741(a) thru (c) Testing of Relief Devices .743 (a) thru (c) Document Title Document/Section Number Revision Date									X X		
192.605 (b) Is unknown as a percent of SMYS A pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP 403. 480-93-180(1) / 192.605 (b) Testing of Relief Devices .743 (a) thru (c) Document Title Document/Section Number Revision Date		480-93-180(1) /				MAOP plus 4 p	ercent				
480-93-180(1) / 192.605 (b) Testing of Relief Devices .743 (a) thru (c) X		192.605 (b)			•	pipelic considering its operating and m	ne aintenance history and			A	
Testing of Relief Devices .743 (a) thru (c) Document Title Document/Section Number Revision Date	403.	480-93-180(1) /	Pres							X	
Document Title Document/Section Number Revision Date	404.	102 605 (b)						X	1		
		D	Treat		D	Manual Cooking Name 1		iar P	-4-		
Comments:		Document	ıııı	e	Docun	nend Section Number	Kevis	ion D	ate		
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		SUBPART - M				
		VALVE AND VAULT MAINTENANCE PROCEDURES	S	U	N/A	N/C
		Notes: There are no valves and vaults for this pipeline.				
405.	480-93-180(1) / 192.605 (b)	Written valve maintenance program detailing the valve selection process, inspection, maintenance, and operating procedures. The written program must detail which valves will be maintained under 49 CFR § 192.745, 49 CFR § 192.747, and 480-93-100. 480-93-100(1) (eff 06/02/05)			X	
		Transmission Valves				
406.	480-93-180(1) /	Inspect and partially operate each transmission valve that might be required during an emergency (1 per $yr/15$ months) $.745(a)$			X	
407.	192.605 (b)	Prompt remedial action required, or designate alternative valve .745(b)			X	
		Distribution Valves				
408.	480-93-180(1) / 192.605 (b)	Check and service each valve that may be necessary for the safe operation of a distribution system (1 per yr/15 months) .747(a)			X	
409.		Prompt remedial action required, or designate alternative valve .747(b)			X	
		Service Valves	S	U	N/A	N/C
410.	480-93-180(1) /	Written service valve installation and maintenance program detailing the valve selection process, inspection, maintenance, and operating procedures. Does the program consider the criteria listed under 480-93-100(2)(a-f)? (eff. 06/02/05)			X	
411.	192.605 (b)	Service valve maintenance (1 per yr/15 months) 480-93-100(3) (eff. 06/02/05)			X	
412.		Service valve installation and maintenance program fully implemented by 6/01/07? 480-93-100(4) (eff. 06/02/05)			X	
		Vaults				
413.	480-93-180(1) / 192.605 (b)	Inspection of vaults greater than 200 cubic feet (1 per yr/15 months) .749			X	

	SUBPART - M PREVENTION of ACCIDENTAL IGNITION PROCEDURES			U	N/A	N/C
414.	480-93-180(1) / 192.605 (b)	Reduce the hazard of fire or explosion by: 192.751 (a) thru (c)	X			

Document Title	Document/Section Number	Revision Date

Comments:		

				_				
		CALILIZED DELL			C	U	N/A	N/C
	SUBPART - M CAULKED BELL AND SPIGOT JOINTS PROCEDURES Notes: The operator only uses welding for the pipeline. Cast-iron caulked bell and spigot joint repair: .753 When subject to more than 25 psig, sealed with mechanical clamp, or sealed with material/device which does not reduce flexibility, permanently bonds, and seals and bonds as prescribed in \$192.753(a)(2)(iii) .753(a) When subject to 25 psig or less, joints, when exposed for any reason, must be sealed b means other than caulking .753(b) SUBPART - M PROTECTING CAST-IRON PIPELINE PROCEDURES Notes: The operator does not have cast-iron pipe. Operator has knowledge that the support for a segment of a buried cast-iron pipeline is disturbed must provide protection755 Vibrations from heavy construction equipment, trains, trucks, buses or blasting? .755(c) Impact forces by vehicles? .755(b) Earth movement? .755(c) Other foreseeable outside forces which might subject the segment of pipeline to a bend stress .755(d) Provide permanent protection for the disturbed section as soon as feasible .755(e)		S	U	IN/A	N/C		
415.								
416.	() -	When subject to material/device	more than 25 psig, sealed with mechanical clamp, or which does not reduce flexibility, permanently bonds				X	
417.				must be sealed by			X	
			AST-IRON PIPELINE PROCEDURES		S	U	N/A	N/C
418.		Operator has knowled	dge that the support for a segment of a buried cast-iro	on pipeline is				
419.	\ /			or blasting? .755(a)			X	
420.		Impact forces by	vehicles? .755(b)				X	
421.							X	
422.							X	
423.		\ \ \ \ \	rotection for the disturbed section as soon as feasible	.755(e)			X	
Docu								
	Documen	nt Title	Document/Section Number	Revis	sion D	ate		
Comm	nents:							
			LIFICATION of PIPELINE PERSONNEL		S	U	N/A	N/C
Date 6	of last UTC staff O	OQ plan review 1/26/2		ew revisions made.				
425.	192.809		tion" activities been identified and included in the op		X			-
	480-93-180(1)	list? 480-93-013 (eff		and the second second	X			

S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked If an item is marked U, N/A, or N/C, an explanation must be included in this report.

Docu	mentation Revie	wed:						
	Documen	nt Title	Document/Section Number	Revis	sion D	ate		
Come	manta							
Comi	nents:							
				DYLOGRADA				
		_	ESIGN, SPECIFICATION, and CONSTI		S	U	N/A	N/C
	<u>N</u>	otes: The operator will l	have no new construction for this pipeline.	<u>.</u>				
426.			n procedures, designs, and specifications used for					
	480-93-180(1)		ipeline. All procedures must detail the accepta for the different types of facilities in the opera-				X	
		017(1)	for the different types of facilities in the opera-	ator's system. 460-93-				
427.			onforming with a gas company's existing and accompany's	cepted construction				
	480-93-180(1)		specifications on file with the commission, sub-				X	
	100 / 200(1)	commission for review a 480-93-017(2)	t least forty-five days prior to the initiation of co	onstruction activity.				
		480-73-017(2)						
		MAPS DRAWINGS	and RECORDS of GAS FACILITIES		S	U	N/A	N/C
428.			then 6 months from completion of construction	activity and made	В		IVA	11/0
420.	480-93-180(1)		personnel. 480-93-018(3)	activity and made	X			
	·	11 1						1
		PROXIM	ITY CONSIDERATIONS		a	T .	27/4	NIG
		(Note: The M	IAOP of this line is 150 psig.)		S	U	N/A	N/C
429.		Each operator must sub	nit a written request and receive commission a	pproval prior to: 480-				
	480-93-180(1)	93-20(1) (See note above	ve)				X	
		Operating any gas pipeli	ne facility at greater than five hundred psig tha	t is within five hundred				
			ng places: 480-93-20 (1)(a)	v 15 William 11VO Hamarou				
430.	480-93-180(1)		t is in existence or under construction prior to the					
			s filed with the commission, and that is not o				X	
		above)	erator in its gas operations; or : 480-93-	20 (1)(a)(i) (See note				
431.	480-93-180(1)		ncy structure or area that is in existence or und	ler construction prior to			+	
	,		rization for construction is filed with the comm				X	
			ee note above)					
432.	480-93-180(1)		vay, as defined in RCW 81.80.010(3). 480-93-	20 (1)(a)(iii) (See note			X	
122	490 02 190(1)	above)	ing facility at greater than two hundred fifty no	ia un to and including				
433.	480-93-180(1)		ine facility at greater than two hundred fifty ps is operated within one hundred feet of either of		S	U	N/A	N/C
		480-93-20(1)(b)	The second of th	parent in a parent			1 1/11	1,70
434.	480-93-180(1)		t is in existence or under construction prior to the					
		construction is	s filed with the commission, and that is not of	owned and used by the			\mathbf{X}	

the date authorization for construction is filed with the commission.

480-93-180(1)

petitioning operator in its gas operations; or : 480-93-20(1)(b)(i) (See note above)

A high occupancy structure or area that is in existence or under construction prior to

 \mathbf{X}

		20(1)(b)(ii) (See note above)			
436.	480-93-180(1)	For proposed new construction, document evidence to demonstrate that it is not practical to select an alternate route that will avoid areas or which demonstrates that the operator has considered future development of the area and has designed their pipeline facilities accordingly. 480-93-20(2) (See note above)		X	